

# SNS 2017

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## Second IEEE International Workshop on Security in NFV-SDN (SNS2017)

*in conjunction with the 3rd IEEE Conference on Network Softwarization (NetSoft 2017)*

### Scope

Network Function Virtualization (NFV) and Software Defined Network (SDN) technologies are radically changing telecommunication networks. NFV virtualizes network services to reduce the dependency on underlying hardware which aids resource management, provides faster service enablement and lowers OPEX and CAPEX. SDN separates the control functions from the underlying physical network by decoupling the control and data planes thereby offering improved programmability, ease of deployment, management, reduced costs, better scalability, availability, flexibility and fine-grain control of traffic. But how does this widespread adoption of NFV-SDN impact on network security, especially with an increased attack surface implied by virtualization? In this workshop, we invite high-quality submissions in the areas of NFV and SDN security and related areas. Submitted papers should highlight methods and approaches that can be used to analyse the security risks, requirements and techniques related to NFV and SDN and to provide methods and approaches to assure security and mitigate threats in NFV and SDN.

### Topics of interest include but are not limited to the following areas:

- Security threats and vulnerabilities introduced by NFV and SDN technologies
- Management and orchestration of NFV and SDN elements for security
- Security, reliability and privacy through SDN and NFV in 5G networks
- Threat detection and mitigation through SDN and NFV
- Security policy specification and management in SDN and NFV systems
- Security related monitoring and analytics in SDN and NFV solutions
- 5G security architecture, trust and confidence
- Authentication, Authorization and Accounting in SDN
- Security of applying SDN to wireless and mobile network
- Security of applying NFV and SDN to IoT
- Security of applying NFV and SDN to cloud computing
- Risk and compliance issues in SDN

- Security architectures for SDN
- Security standards for SDN
- Security of SDN data plane
- Security of SDN control plane
- Security of SDN application plane
- Security of routing in SDN
- Security as a service for SDN

### **Important Dates**

- Paper Submission: March 10, 2017
- Notification of Acceptance: April 18, 2017
- Camera Ready: May 3, 2017

### **Paper Submission Guideline**

The manuscripts must be prepared in English, following IEEE two-column Manuscript Templates ([http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)) for Conference Proceedings with a maximum length of six (6) printed pages for full papers and up to four (4) pages for short papers (work in progress), including figures. All papers need to be submitted in PDF format via JEMS at <https://submissoes.sbc.org.br/home.cgi?c=2763>. All submitted papers will be peer-reviewed. To be published in the Workshop Proceedings and to be eligible for publication in IEEE Xplore, at least one author of an accepted paper is required to register and present the paper at the workshop. The IEEE reserves the right to exclude a paper from distribution after the conference (including its removal from IEEE Explore) if the paper is not presented at the conference. Papers are reviewed on the basis that they do not contain plagiarized material and have not been submitted to any other conference at the same time (double submission). These matters are taken very seriously and the IEEE Communications Society will take action against any author who engages in either practice.

### **Workshop Co-Chairs**

- Dr. Shao Ying Zhu, University of Derby, UK
- Linas Maknavicius, Nokia Bell Labs, France
- Eleni Trouva, NCSR Demokritos, Greece
- Dr. Colin Allison, University of St Andrews, UK
- Dr. George Gardikis, Space Hellas, Greece

### **Technical Program Committee**

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- Antonio Agustin Partor Perales - Telefonica I&D, Spain
- Dimitris Katsianis, Incites, Luxemburg

### Contact

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Event Details

**Location:** Bologna, Italy

**URL:** <http://sns2017.eu/>

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